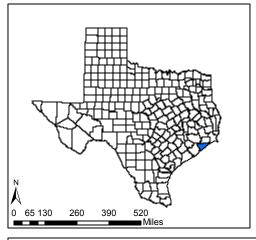
Air Pollutant Watch List Area

APWL1202 - Propionaldehyde, Benzene, & Hydrogen Sulfide Texas City, Galveston County, Texas

Number | Company Name PRAXAIR INC RN100220599 OILTANKING TEXAS CITY LP RN100217231 TEXAS CITY COGENERATION LP RN100224245 APPLIED INDUSTRIAL MATERIALS CORPORATION RN102707049 TEXAS OFFSHORE PORT SYSTEM RN102560182 1207 GULF COAST WASTE DISPOSAL AUTHORITY RN100212463 UNION CARBIDE CORPORATION 2246 RN100219351 12443 BP AMOCO CHEMICAL COMPANY RN102536307 STERLING CHEMICALS INC 13421 RN100212620 14674 RN104095435 15320 RN102535077 16610 MARATHON PETROLEUM COMPANY LLC RN100210608 VALERO REFINING-TEXAS LP RN100238385 **BOLLINGER TEXAS CITY LP** RN100218627 RN100218767 INEOS NOVA LLC RN104579487 52140 RN102556347 SHELL PIPELINE COMPANY LP RN105644223 60133 WILLIAMS FIELD SERVICES GROUP LLC RN100906155 SOUTH HOUSTON GREEN POWER LP RN103934493 MARATHON ASHLAND PIPE LINE LLC RN104574918 TEXAS CITY BALL PARK Texas 315 13421 Texas 15320 16610 21780 16610 15320 2246 16628 14674 931 14674 12443 40288 336 (197) 1207 1207 1207 Legend Ambient Air Monitors **APWL** 3.2 0.4 0.8 1.6 2.4 Industry Boundaries

Texas Commission on Environmental Quality





Map created on June 26, 2009

This map was generated by the Toxicology Division (TD) of the Texas Commission on Environmental Qualtiy. No claims are made to the accuracy or completeness of the data, or to the suitability of the map for a particular use. This APWL area of concern may contain facilities which have not been identified by the TD. For more information regarding this map, please contact the TD at (512)239-1795.

Where is the Area of Concern Located?

- * South of TX Avenue/State Hwv 348
- * East of Hwy 146
- * West of Galveston Bay (West Bay)

Why is this Location and Pollutant(s) on the APWL?

Propional dehyde

During the 2000 and 2001 mobile monitoring projects, concentrations of propionaldehyde were detected above the odor-based air monitoring comparison value (AMCV) downwind of Dow Chemical (formerly Union Carbide). Although no odorous levels were detected in the 2004 mobile monitoring project, odorous levels were detected during the 2008 mobile monitoring project.

<u>Benzene</u>

Elevated benzene levels have been detected during mobile monitoring projects from 2001 to 2008, downwind of various facilities throughout the Texas City area. Some of the concentrations detected during these projects have exceeded the short-term AMCV and several detections could contribute to elevated long-term concentrations. In addition, long-term stationary monitoring in the Texas City area has historically detected annual ambient concentrations of benzene above the long-term AMCV. The 11th Street monitor, funded by Marathon, has consistently had annual average benzene concentrations above the long-term AMCV since monitoring began in 2004. Data from the 34th Street monitor, funded by BP North America Products, Inc., indicated a 70% decrease in annual average benzene concentrations from 2005 to 2008; although emission events in 2009 lead to an elevated annual average.

Hydrogen Sulfide

A 2004 mobile monitoring trip reported hydrogen sulfide (H_2S) levels that exceeded the H_2S 30-minute state regulatory standard. These reported levels had the potential to cause short-term odor-related health effects downwind of Gulf Coast Waste Disposal Authority (GCWDA) and Valero. A subsequent mobile monitoring project in 2008 did not detect any concentrations of H_2S above the regulatory standard. Limited stationary monitoring data indicated a decreasing trend in H_2S from 2004 until 2008. In 2009, however, there were 16 exceedances at the Texas City Ball Park monitor.

Annual evaluations may be accessed here:

http://www.tceg.state.tx.us/implementation/tox/regmemo/AirMain.html